

*A1 Correl*

continuation in part of Serial No. 09/160,340 filed September 25, 1998, which claims the benefit of co-pending provisional application Serial No. 60/060,060, filed September 25, 1997. Each of these applications is incorporated by reference herein.

- A2*
- (2) On page 2, delete the paragraph at lines 26-29 and substitute the following paragraph:

Still another embodiment of the invention provides a temperature sensitive plasmid. The plasmid replicates at 30 °C but not at 40 °C in *P. haemolytica*. Moreover, it is of the same incompatibility group as the plasmid which has been deposited at the ATCC with Accession No. 98895.

- A3*
- (3) On page 4, delete the paragraph at lines 19-23 and substitute the following paragraph:

Also provided by the present invention is a temperature sensitive plasmid which replicates at 30 °C but not at 40 °C in *P. haemolytica*. Preferably the plasmid is of the same incompatibility group as pD80, *i.e.*, it shares the same origin of replication. One such plasmid has been deposited at the ATCC with Accession No. 98895.

## IN THE CLAIMS

Please delete claims 1-34 and substitute the following new claims.

- A4*
35. (new) A method of inducing immunity to pneumonic pasteurellosis in ruminants, comprising the step of:  
administering to a ruminant a *P. haemolytica* bacterium which (a) expresses no biologically active leukotoxin, (b) expresses a form of leukotoxin molecule which induces antibodies which neutralize biologically active leukotoxin, and (c) contains no non-*P.*